Parts Catalog

## ILLUSTRATED PARTS CATALOG

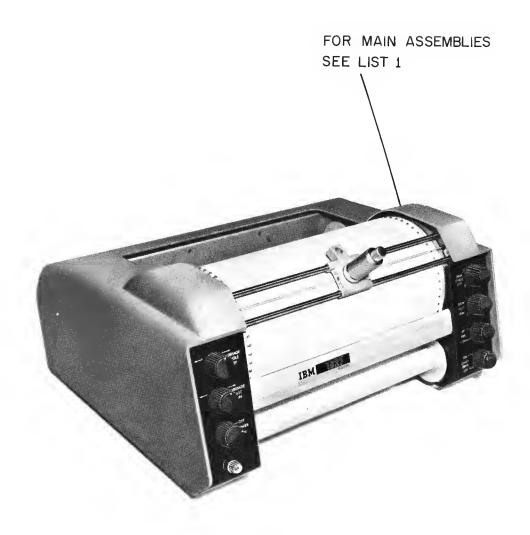
# PLOTTER MODEL 1 AND MODEL 2 1627

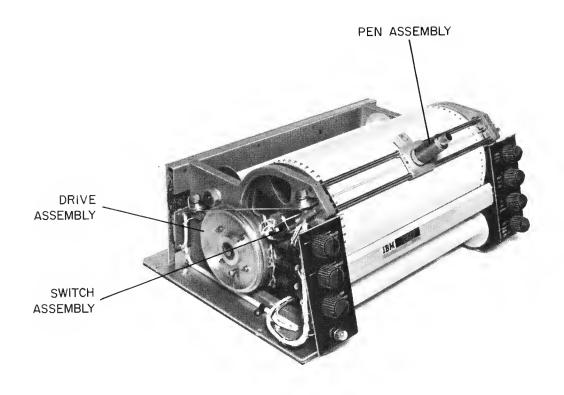
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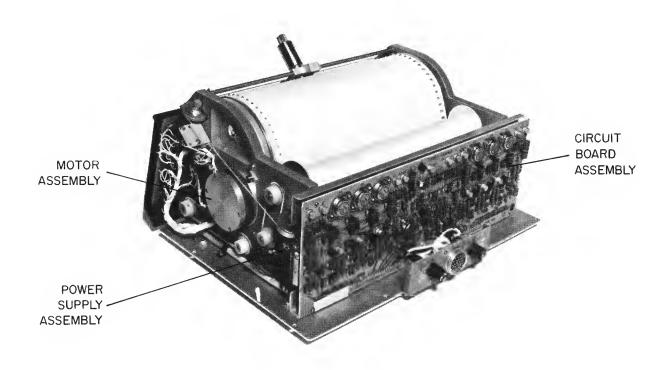
DATA PROCESSING DIVISION
INTERNATIONAL BUSINESS MACHINES CORPORATION
112 EAST POST ROAD, WHITE PLAINS, N.Y.

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TYPE 1627 MODEL I AND MODEL 2 PLOTTER - FRONT AND REAR VIEW. SHEET 2 OF 2.

List 1

MAIN ASSEMBLY MODEL 1
(See Figure 1 for Illustration)

		Item	Assy
0	2162198	Plotter assembly, Model 1	1
1	2161925	Rod, carriage	2
2	2161926	Cover	1
3	. 2161927	Pulley	2
4	2161928	Pulley	2
5	2161929	Support	8
6	2161930	Shaft	4
7	2161931	Panel, RH	1
8	2161932	Panel, LH	1
9	2161933	Spring	2
10	2161934	Bracket	1
11	2161935	Cabinet	1
12	2161936	Pan, paper	1
13	2161937	Actuator	2
14	2161938	Bracket	2
15	2161939	Support, RH	1
16	2161940	Support, LH	1
17	2161941	Base	1
18	2161942	Cover	1
19	2161943	Shield	2
20	2161944	Angle, RH	1
21	2161945	Angle, LH	1
22	2161946	Support	2
23	2161947	Shaft	1
24	2161948	Spring	1
25	2161949	Spring	1
26	2161950	Drum shaft subassembly	1
27	2161951	Push rod subassembly	1
28	2161953	Drive pulley subassembly	1
29	2161954	Idler pulley subassembly	3
30	2161955	Step motor	2
31	2161956	Idler spool, paper roll	2
32	2161957	Drive spool, paper roll	2
33	2161991	Carriage and cables subassembly	1
35	2161958	Holder, bearing	4
36	2161959	Washer spring	4
37	2161961	Knob	3
38	2161960	Knob	4
41	2161962	Pulley subassembly	1

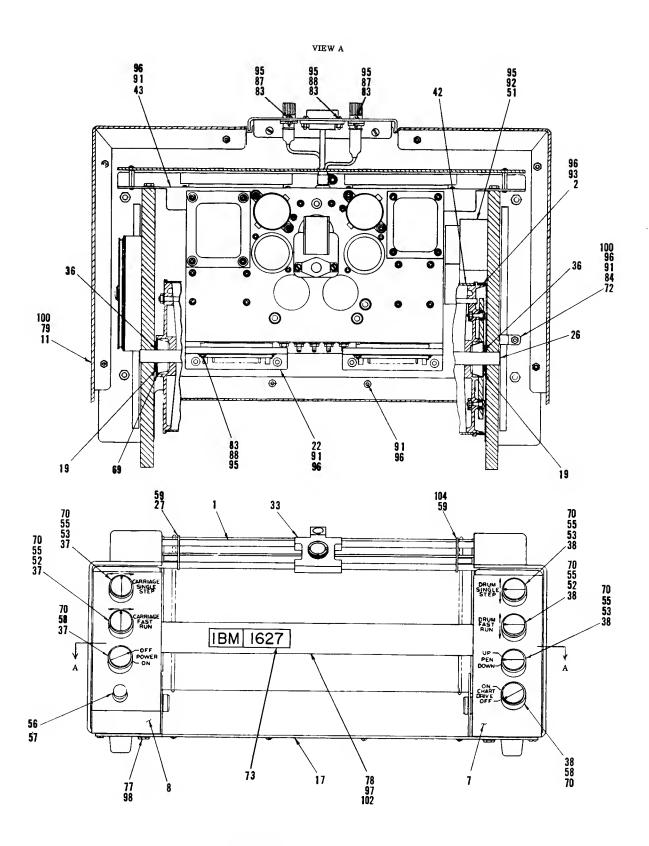


FIGURE 1. MAIN ASSEMBLY MODEL I. SHEET 1 OF 2. SEE LIST 1.

#### MAIN ASSEMBLY MODEL 1 (Cont)

Index No.	Part No.	Item	Units Per Assy
42	2161920	Drum replacement kit	1
42.1	2161963	Drum assembly (Do not order REF. ONLY)	
43	2161964	Power supply assembly (see list 4)	1
44	2161965	Holder	1
45	2161966	Holder	1
46	2161967	Terminal strip	1
47	2162016	Nylon ball 5-32 dia.	4
48	2161968	Board assembly	1
49	2161969	Stand off	4
50	2161970	Terminal board	1
51	2162017	Motor - 115 v	2
52	2161975	Switch	1
53	2161976	Switch	1
54	2162018	Switch	2
55	2162019	Washer, keyed	5
56	2162020	Lamp assembly	1
57	2162021	Lamp	1
58	2172048	Switch	1
59	467574	Snap ring, beryllium copper, 3/16 in. external	2
60	454088	Snap ring, stainless steel, 1/2 in. external	1
61	103689	Snap ring, stainless steel, 5/16 in. external	2
62	2162022	Resistor	6
63	173937	Set screw, socket head, 8-32 x 3/16, cup point	2
64	311546	Set screw, socket head, 10-32 x 1/4, cup point	8
65	425075	Set screw, socket head, 1/4-20 x 1/2, cup point	2
66	2162023	Bumper, rubber	4
67	2162026	Washer, fiber	16
68	2162024	Stand off	2
69	2162025	Bearing, class No. 3	1
70	159952	Lockwasher	9
71	2162028	Spring, cadmium plated	1
72	2162027	Cable clip	2
73	2162239	Name plate	1
74	2162029	Lug	4
<b>7</b> 5	358670	Nut	4
76	216128	Nut	1
77	2172044	Screw, hex head	4
78	38266	Screw, cap, 10-32 x 1/2	8
79	35739	Screw, binder head, 6-32 x 7/16	8
80	2172045	Screw, hex head	6
81	2172046	Screw, fillister head	4
82	2101821	Screw, truss head, 10-32 x 5/8	4
83	37913	Nut, plain, 4-40	16

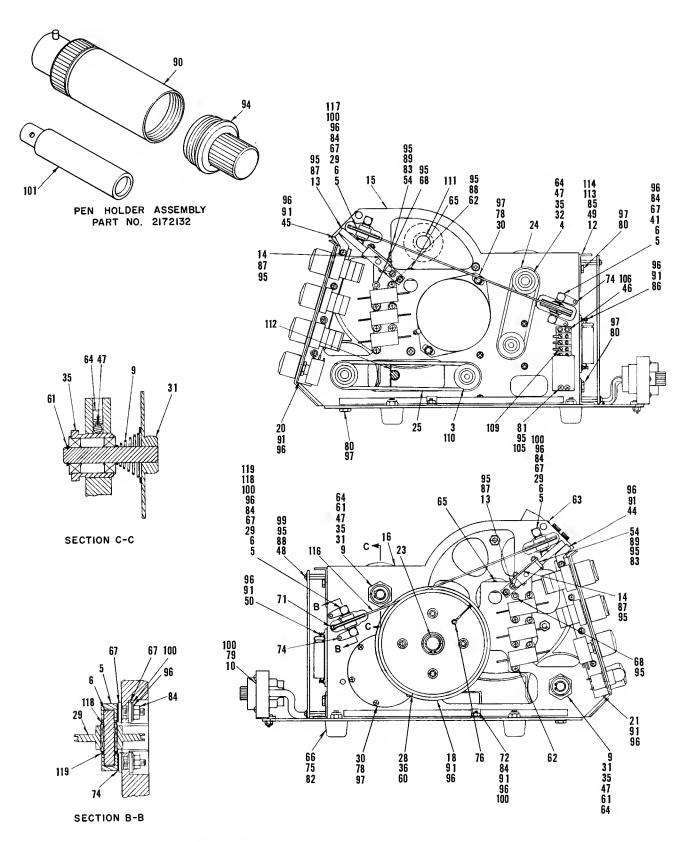


FIGURE 1. MAIN ASSEMBLY MODEL I. SHEET 2 OF 2. SEE LIST 1.

#### MAIN ASSEMBLY MODEL 1 (Cont)

Index No.	Part No.	Item	Units Pe Assy
84	38051	Nut, plain, 6-32	10
85	52522	Screw	4
86	2161971	Terminal board	1
87	338238	Screw	24
88	236550	Screw	26
89	438551	Screw	4
90	2172133	Body, pen holder	1
91	81693	Screw	30
92	322550	Screw	4
93	322551	Screw	3
94	2172134	Top, pen holder	1
95	150209	Lockwasher	52
96	62031	Lockwasher	41
97	56121	Lockwasher	14
98	65756	Lockwasher	4
99	257985	Washer	6
100	257986	Washer	18
101	2172135	Plunger, pen holder	1
102	2161972	Tear bar	1
102	2101012	1002 802	
104	2161952	Push-rod subassembly	1
105	2161974	Shield	1
106	2161973	Stud	4
109	2162030	Lug	8
110	112055	Set screw 8-32 x 1/4	2
111	2162031	Button	1
112	2161977	Clamp	1
113	2162239	Name plate	1
114	2172047	Rivet	4
114	2112041	Tuvet	-
116	2162060	Cable replacement kit	1
117	2162032	Washer	4
118	2161979	Washer, spring	4
119	2161980	Washer	4

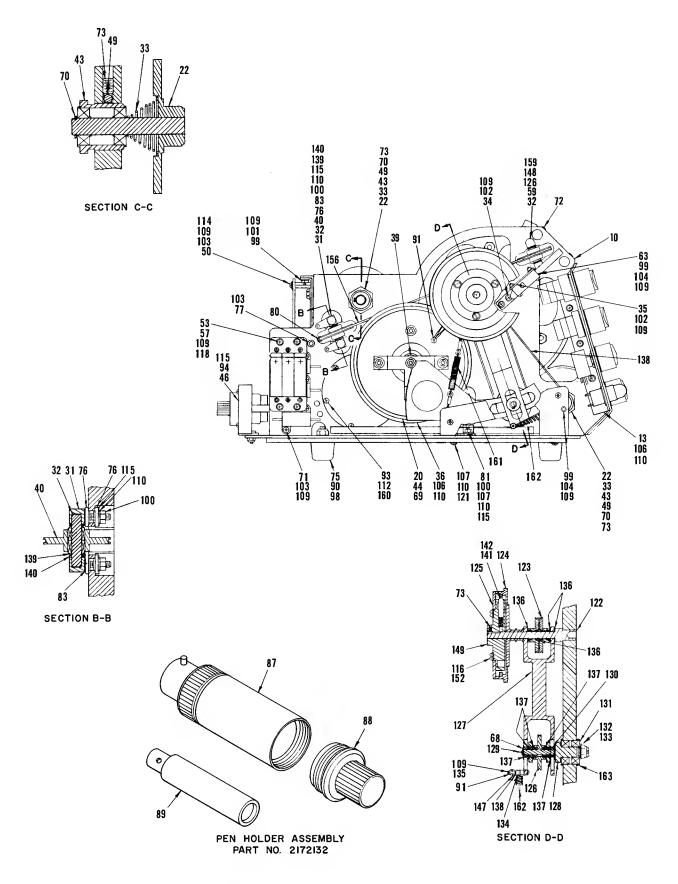


FIGURE 2. MAIN ASSEMBLY MODEL 2. SHEET 1 OF 4. SEE LIST 2.

List 2

MAIN ASSEMBLY MODEL 2
(See Figure 2 for Illustration)

Index No.	Part No.	Item	Units Per Assy
0	2162199	Plotter assembly Model 2	1
1	2161924	Rod, carriage	2
2	2162062	Cover	1
4	2162063	Pulley	2
5	2162064	Panel, RH	1
6	2162065	Panel, LH	1
7	2162066	Cabinet	1
8	2162067	Pan, paper	1
9	2162068	Support, RH	1
10	2162069	Support, LH	1
11	2162070	Base	1
12	2162071	Angle, RH	1
13	2162072	Angle, LH	1
14	2162073	Support	2
15	2162074	Spring	2
16	2162075	Spring	2
17	2162076	Drum shaft subassembly	1
18	2162077	Push rod subassembly	1
19	2162078	Push rod subassembly	1
20	2162079	Drive pulley subassembly	1
20	2102013	Dive partey subassemary	
22	2162080	Idler spool	2
23	2162081	Drive spool	2
24	2162082	Carriage and cable assembly	1
25	2161960	Knob	4
26	2161961	Knob	3
28	2162083	Panel, RH	1
29	2162084	Panel, LH	1
30	2162085	Pulley, special	1
31	2161929	Support	4
32	2161930	Shaft	3
33	2161933	Spring	2
34	2161937	Actuator	2
35	2161938	Bracket	2
36	2161942	Cover	1
37	2161943	Shield	2
38	2161946	Bracket	2
39	2161947	Shaft	1
40	2161954	Idler pulley	1
41	2162086	Step motor	1

#### MAIN ASSEMBLY MODEL 2 (cont)

Index No.	Part No.	Item	Units Pe Assy
42	(not used)		
43	2161958	Holder, bearing	4
44	2161959	Washer spring	6
45	(not used)		
46	2162087	Bracket	1
47	2161964	Power supply	1
48	2172001	Terminal strip	1
49	2162016	Nylon ball	4
50	2161968	Board assembly	1
51	2161969	Stand off	4
52 50 1	2161921	Drum replacement kit	1
52 <b>.</b> 1	2172002 2172003	Drum assembly (Do not order for REF, ONLY) Board assembly	2
54	2172004	Support	2
55	2172005	Tear bar	1
56	2162240	Name plate	1
57	2172006	Spacer	8
58	2172007	Shaft	1
59	2172008	Support	2
63	2162018	Switch	2
64	2162019	Keyed washer	5
65	2162020	Lamp assembly	1
66	2162021	Lamp	1
68	467574	Snap ring	7
69	454088	Snap ring	1
70	103689	Snap ring	2
71	2162022	Resistor	6
72	123780	Set screw	4
73	176246	Set screw	8
74	2172116	Set screw	2
75	2162023	Bumper	4
76	2162026	Washer	8
77	2162024	Stand off	2
78	2162025	Bearing	1
79	159952	Lockwasher	9
80	2172009		
81	2172009	Spring Cable clip	3
	22020	- Canada Oalp	<u> </u>
83	2162029	Lug	4

#### MAIN ASSEMBLY MODEL 2 (Cont)

Index No.	Part No.	Item	Units Per Assy
84	2161975	Switch	2
85	2161976	Switch	3
86	2172048	Switch	2
87	2172133	Body, pen holder	1
88	2172134	Top, pen holder	1
89	2172135	Plunger, pen holder	1
90	358670	Nut	4
91	216128	Nut	2
92	2172117	Screw, hex head	4
93	38266	Screw, cap	8
94	35739	Screw, binder head	10
95	2172045	Screw, hex head	4
96	2172118	Screw, hex head	6
97	2172046	Screw	4
98	438601	Screw, truss head	4
99	2172054	Nut, plain	29
100	257187	Nut, plain	7
101	52522	Screw	10
102	338238	Screw	12
103	236550	Screw	26
104	438551	Screw	5
	יונ		
106	81693	Screw	17
107	322550	Screw	14
108	322551	Screw	3
109	150209	Lockwasher	70
110	62031	Lockwasher	38
112	56121	Lockwasher	18
113	65756	Lockwasher	4
114	2172052	Washer	6
115	2172053	Washer	17
116	2172120	Screw	3
117	2172121	Lockwasher	6
118	2172122	Screw	8
119	438550	Screw	5
120	2172123	Screw	6
121	2172012	Bracket	1
122	2172013	Shaft	1
123	2172014	Pulley	2
124	2172015	Pulley, adjustment	1
125	2172016	Plate	1

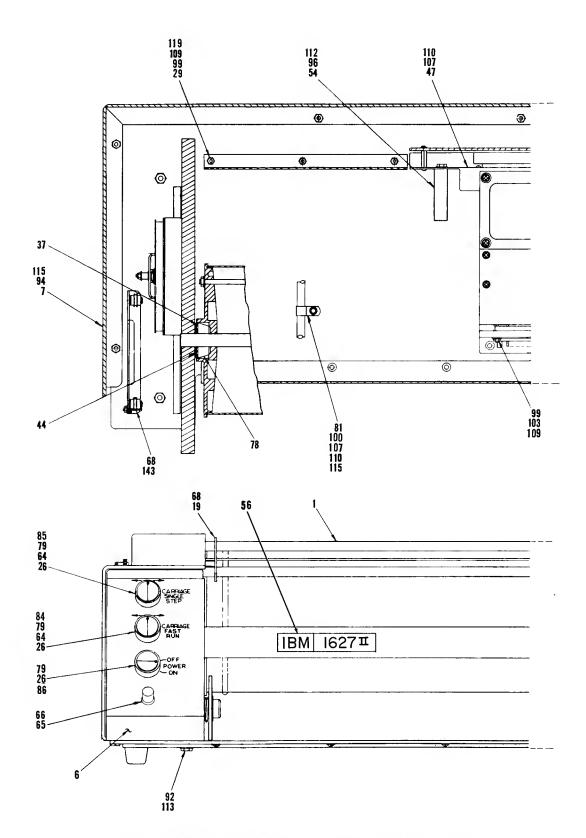


FIGURE 2. MAIN ASSEMBLY MODEL 2. SHEET 2 of 4. SEE LIST 2.

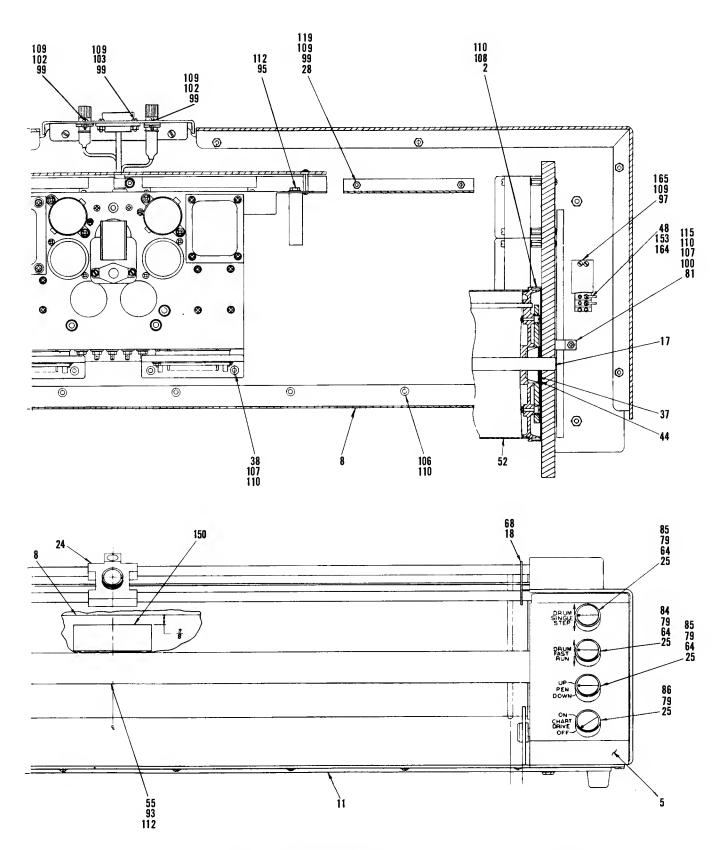


FIGURE 2. MAIN ASSEMBLY MODEL 2. SHEET 3 OF 4. SEE LIST 2.

#### MAIN ASSEMBLY MODEL 2 (Cont)

	Part No.	Item	Assy
126	2172017	Pulley, idler	3
127	2172018	Arm, adjustment	1
128	2172019	Sector	1
129	2172020	Shaft	1
130	2172021	Bearing	4
131	2172022	Bearing	2
132	2172023	Washer	1
133	2172124	Nut	1
134	2172024	Spacer	1
135	2172125	Screw	1
136	2172126	Washer	7
137	2172127	Washer	5
138	2161923	Cable replacement kit	1
139	2161979	Washer	4
140	2161980	Washer	4
141	2172026	Spring	1
142	2172027	Pin	1
143	2172028	Pulley	2
144	2172029	Pulley	1
145	2172030	Shaft	1
146	2172031	Snap ring	1
147	2172032	Spacer	1
148	2162032	Washer	4
149	2172033	Hub	1
150	2162240	Name plate	1
		-	
152	2172128	Washer	3
153	2162030	Lug	6
154	2162031	Button	1
155	2161977	Clamp	1
156	2161923	Cable replacement kit	1
157	2172035	Motor, subassembly	2
158	2172129	Washer	1
159	2172130	Washer	4
160	2161955	Step motor	1
161	2162028	Spring	1
162	2172036	Spring	1
163	2172037	Spacer	1
164	2161973	Stud	4
165	2172038	Shield	1

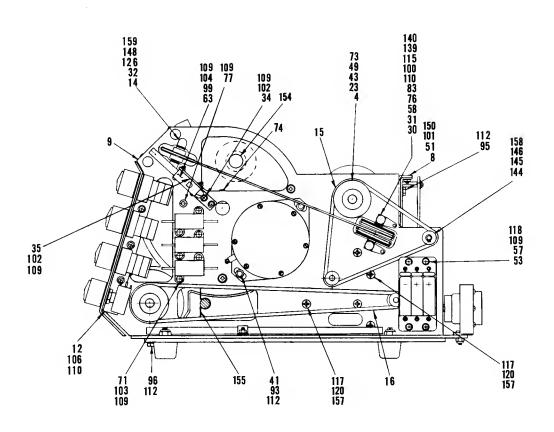


FIGURE 2. MAIN ASSEMBLY MODEL 2. SHEET 4 OF 4. SEE LIST 2.

List 3

PLOTTER DRIVER CIRCUIT BOARD MODEL 1 AND 2
(See Figure 3 for Illustration)

Ref.		Thom:	Units Per
Desig.	Part No.	Item	Assy
	2161968	Circuit board assembly	1
	2161989	Circuit board, etched, black epoxy glass	1
	:	laminate $.093 \times 16-1/16$ in., with 2 oz.,	
		copper both sides	
TP1 thru TP6	2162041	Terminal, test point	6
P1, P2	2161990	Connector, electrical	2
	81693	Screw, RH, 6-32 x 3/8	14
	257 187	Nut, plain, 6-32	14
	257986	Washer, flat, No. 6	14
	2162035	Sleeving, No. 24 AWG, 6 ft.	As
			req'd
Q1, Q2, Q3, Q6,	2162042	Transistor	17
Q9, Q12, Q13,			
Q17, Q19, Q20,			
Q21, Q22, Q23,			
Q26, Q29, Q32,			
Q33			
Q4, Q7, Q10,	2162043	Transistor	9
Q14, Q15, Q18,			
Q24, Q27, Q30			
Q5, Q8, Q11,	2162044	Transistor	7
Q16, Q25, Q28,			
Q31			
CR1 thru CR20,	2162045	Diode	50
CR22 thru CR51			
CR21	2162012	Diode	1
R58, R60	2162046	Resistor, 10 ohm $\pm$ 5%, 1/2 W	2
R5, R44	2162047	Resistor, 22K <u>+</u> 5%, 1/2 W	4
R92, R131			
R4, R43	2162048	Resistor, $15K \pm 5\%$ , $1/2 W$	4
R91, R130			
R1, R40, R61,	2162049	Resistor, $1K \pm 5\%$ , $1/2 W$	7
R64, R86, R88,			İ
R127			
R12, R51, R66,	2162050	Resistor, $2.2K \pm 5\%$ , $1/2 W$	8
R73, R76, R84,			
R99, R138			
R8, R9, R10, R47,	2162051	Resistor, $3.3K \pm 5\%$ , $1/2 W$	18
R48, R49, R55, R56,			
R57, R59, R71,			
R79, R95, R96, R97,			
R134, R135, R136			

### PLOTTER DRIVER CIRCUIT BOARD MODEL 1 AND 2 (cont)

Ref.			Units Per
Desig.	Part No.	Item	Assy
R7, R18, R25,	2162052	Resistor, 1.5K ± 5%, 1/2 W	19
R30, R32, R35,			
R36, R46, R62,			
R74, R77, R94,			
R105, R112, R117,			
R119, R122, R123,			
R133			
R6, R14, thru R17,	2162053	Resistor, 10K + 5%, 1/2 W	42
R19, R21, thru R24,			
R26, R28, R29, R31,			
R33, R34, R37, R38,		·	
R45, R53, R54, R68,			
R83, R93, R101 thru			
R104, R106, R108			
thru R111, R113,			
R115, R116, R118,			
R120, R121, R124,			
R125, R132			
R3, R42, R69, R70	2162054	Resistor, 6.8K ± 5%, 1/2 W	10
R75, R78, R81, R82			_
R90, R129, R20,	2162055	Resistor, 560 ohm ± 5%, 2 W	7
R27, R39, R63,			
R107, R114, R126			
C13	2162056	Capacitor, 6.8 mfd <u>+</u> 20%, 35 V	1
C2, C11,	2162057	Capacitor, 0.1 mfd ± 20%, 200 V	4
C19, C28			
C1, C3 thru C10,	2162058	Capacitor, 0.01 mfd + 20%, 200 V	24
C12, C14 thru			
C18, C20 thru			
C27, C29			
C30 thru C41	2162059	Capacitor, 820 uuf, 500 V	12
		1	

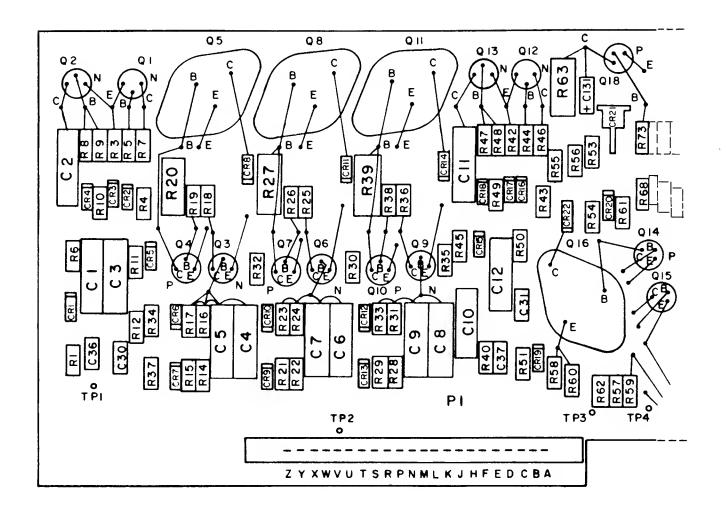


FIGURE 3. PLOTTER DRIVER CIRCUIT BOARD MODEL I AND 2. SHEET 1 OF 2. SEE LIST 3.

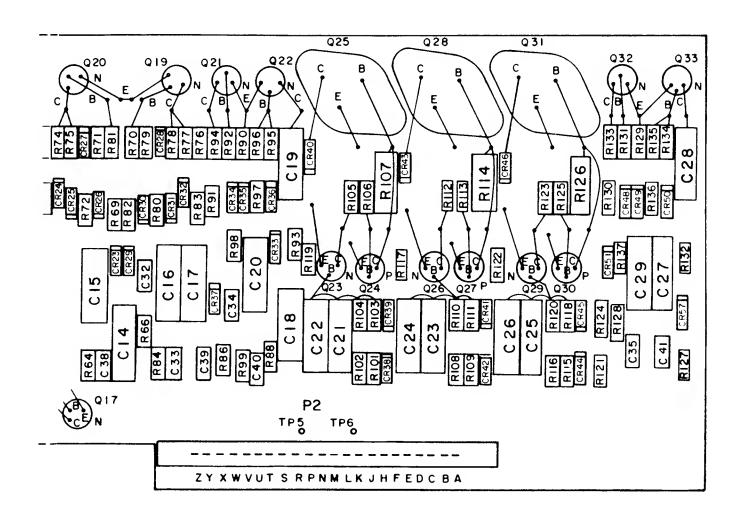


FIGURE 3. PLOTTER DRIVER CIRCUIT BOARD MODEL I AND 2. SHEET 2 OF 2. SEE LIST 3.

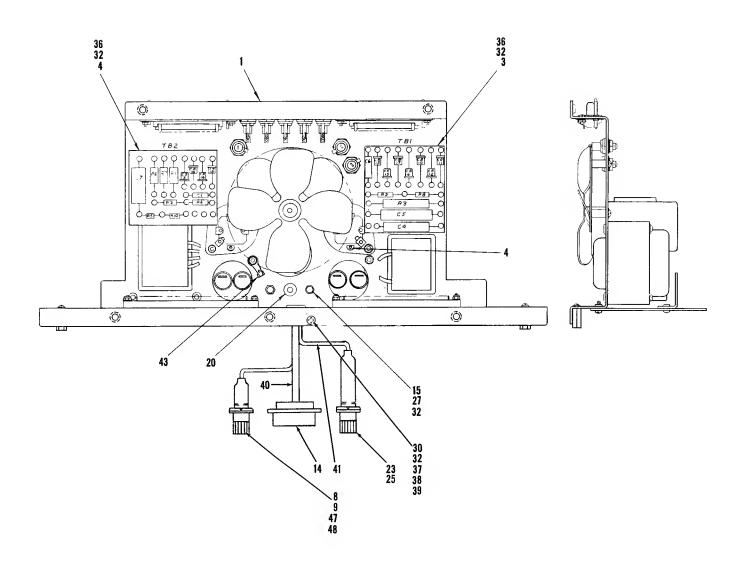


FIGURE 4. POWER SUPPLY ASSEMBLY MODEL I AND 2. SHEET 1 OF 2. SEE LIST 4.

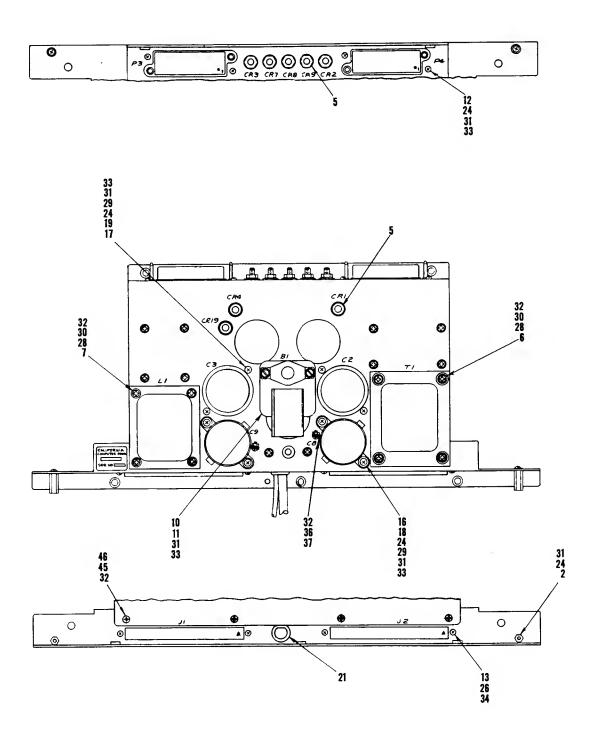


FIGURE 4. POWER SUPPLY ASSEMBLY MODEL I AND 2. SHEET 2 OF 2. SEE LIST 4.

List 4

POWER SUPPLY ASSEMBLY MODEL 1 AND 2
(See Figure 4 for Illustration)

Index No.	Ref. Desig.	Part No.	Item	Units Pe Assy
0		2161964	Power Supply	1
1		2161984	Chassis	1
2		2161969	Stand off	2
3	TB1	2161985	Terminal board assembly (see list 5)	1
			for breakdown	
4	TB2	2161987	Terminal board assembly (see list 6)	1
			for breakdown	
5	CR1 thru CR4	2162033	Diode	8
ļ	CR7, CR8,			
	CR9, CR19			
6	T1	2162034	Transformer	1
7	L1	2161992	Choke	1
8	F1	332009	Fuse, 3 AG, 2 amp, slo-blo	1
9		2161993	Fuse holder	1
10	B1	2161994	Motor	1
11		2161995	Fan	1
12	P3, P4	2161996	Connector, electrical	2
13	J1, J2	2161997	Connector, electrical	2
14	P5	2161998	Connector, electrical	1
15		2161999	Terminal, insulated	2
16	C8, C9	2162000	Capacitor, 1.0 mfd, 330 vac	2
17	C2, C3	2162001	Capacitor, 500 mfd, 50 vdc	2
18		2162002	Clamp	2
19		2162003	Sleeve	2
20		2162004	Grommet	1
21		2162005	Grommet	1
23		2172136	Fuse 4 amp AGX	1
24		2172049	Screw	14
25		2172137	Fuse holder	1
26		438550	Screw	4
27		2172050	Screw	2
28		2172051	Screw	8
29		2172052	Washer	8
30		2172053	Washer	9
31		150209	Lockwasher	15
32		62031	Lockwasher	25
33		2172054	Nut	14
34		2172055	Nut	4
<del></del>				-
36		2172056	Screw	10
37		257187	Nut	3

#### POWER SUPPLY ASSEMBLY MODEL 1 AND 2 (Cont)

Index No.	Ref. Desig.	Part No.		Units Per Assy
38		2172057	Screw, 820 flat head	1
39		2162027	Clamp	1
40		2162009	Sleeve - white	1
41		2162010	Sleeve - white	1
43		2162008	Lug	1
45		2161981	Shield	1
46		2172051	Screw	4
47		2161982	Bracket	1
48		2161983	Sleeve	1

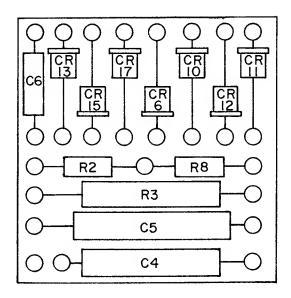


FIGURE 5. TERMINAL BOARD ASSEMBLY MODEL I AND 2. SEE LIST 5.

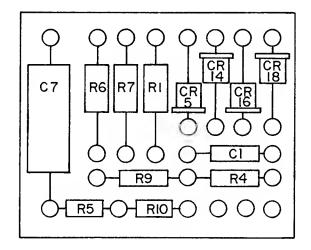


FIGURE 6. TERMINAL BOARD ASSEMBLY MODEL I AND 2. SEE LIST 6.

List 5
TERMINAL BOARD ASSEMBLY MODEL 1 AND 2
(See Figure 5 for Illustration)

Ref. Desig.	Part No.	Item	Units Per Assy
	2161985	Terminal board assembly	1
TB1	2161986	Terminal board	1
C5	315967	Capacitor, .1 mfd, 400 vdc	1
C4	2162011	Capacitor, 200 mfd, 6 vdc	1
CR6, CR11	2162012	Diode, type IN536	6
CR12, CR13,			
CR15, CR17			
CR10	2162013	Diode, Zener	1
R8	356740	Resistor, 270 ohm, 10%, 1/2 W	1
R2	300736	Resistor, 1 meg., 10%, 1/2 W	1
C6	2162014	Capacitor, 0.033 mfd, 20%, 200 vdc	1
R3	2162015	Resistor, 125 ohm, 10 W	1
	NP*	Buss wire	1
	2162036	Sleeving	1

List 6
TERMINAL BOARD ASSEMBLY MODEL 1 AND 2
(See Figure 6 for Illustration)

Ref. Desig.	Part No.	Item	Units Per Assy
	2161987	Terminal board assembly	1
CR5, CR14, CR16, CR18	2162012	Diode, type IN536	4
R1	2162037	Resistor, 360 ohm, 5%, 2 W	1
R6, R7	2162038	Resistor, 450 ohm, 5 W	2
R5	2162039	Resistor, 1K, 10%, 1/2 W	1
R10	300728	Resistor, 100K, 10%, 1/2 W	1
R4, R9	356740	Resistor, 270 ohm, 10%, 1/2W	2
C1	2162040	Capacitor, 6.8 mfd, 35 vdc	1
TB2	2161988	Terminal board	1
C7	315967	Capacitor, 0.1 mfd, 400 vdc	1
	NP*	Buss wire	1
	2162036	Sleeving	1
*NP - Non-proc	urable		

7591 Fold Cut

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MEII

